STATEMENT OF BASIS

as required by LAC 33:IX.3109, for draft Louisiana Pollutant Discharge Elimination System Permit No. LA0122378; AI 130212; PER20050001 to discharge to waters of the State of Louisiana as per LAC 33:IX.2311.

The permitting authority for the Louisiana Pollutant Discharge Elimination System (LPDES) is:

Louisiana Department of Environmental Quality

Office of Environmental Services

P. O. Box 4313

Baton Rouge, Louisiana 70821-4313

I. THE APPLICANT IS:

Water & Wastewater Utilities, Inc.

St. Benedict Subdivision

211 Hulco Drive Scott, LA 70583

II. PREPARED BY:

Ronda Burtch

DATE PREPARED:

April 2, 2007

III. PERMIT ACTION:

Issue LPDES permit <u>LA0122378</u>, AI <u>130212</u>; <u>PER20050001</u>

LPDES application received: December 27, 2005 LPDES modified application received: June 16, 2006

IV. FACILITY INFORMATION:

A. The application is for the discharge of treated sanitary wastewater from a privately owned treatment works serving the St. Benedict Subdivision.

- B. The permit application does not indicate the receipt of industrial wastewater.
- C. The facility is located at the intersection of Braquet Road and Cormier Road in Carencro, Lafayette Parish.
- D. The treatment facility consists of a 38,000 GPD extended aeration sewage treatment plant. Disinfection is by chlorination.

E. Outfall 001

Discharge Location:

Latitude 30° 20' 09" North

Longitude 92° 03' 28" West

Description:

treated sanitary wastewater

Expected Flow:

95 homes x 400 gallons/day/home = 0.038 MGD

Calculations for gallons per day were based upon figures obtained from Chapter 15 of the State of Louisiana Sanitary Code, Department of Health and Hospitals, Office of Public Health.

V. RECEIVING WATERS:

The discharge is into an unnamed ditch, thence into an unnamed parish drainage ditch, thence into Bayou Carencro, thence into the Vermilion River in segment 060801 of the Vermilion - Teche Basin. This segment is not listed on the 303(d) list of impaired waterbodies.

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The designated uses and degree of support for Segment 060801 of the Vermilion - Teche Basin are as indicated in the table below. '':

Overall Degree of Support for Segment 060801	Degree of S	upport of Eacl	niUse				
Partial	Primary Contact Recreation	Secondary Contact Recreation	Propagation of Fish & Wildlife	Outstanding Natural Resource Water	Drinking Water Supply	Shell fish Propagation	Agriculture
	Not Supported	Not Supported	Not Supported	N/A	N/A	N/A	Full

^{1/}The designated uses and degree of support for Segment 060802 of the Vermilion - Teche Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2004 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 060801 of the Vermilion - Teche Basin, is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U. S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated September 29, 2006 from Watson (FWS) to Brown (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

VII. PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit modification and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

For additional information, contact:

Ms. Ronda Burtch
Permits Division
Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

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VIII. PROPOSED PERMIT LIMITS:

Subsegment 060801, Vermilion River - Headwaters at Bayou Fusilier-Bourbeaux junction to New Flanders (Ambassador Caffery) Bridge, La. Hwy. 3073, is not listed on LDEQ's Final 2004 303(d) List as impaired. However, subsegment 060801 was previously listed as impaired for phosphorus, nitrogen (nitrate + nitrite as N), organic enrichment/low DO, pathogen indicators, suspended solids/turbidity/siltation, and Carbofuran for which the below TMDLs have been developed. The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional TMDLs and/or water quality studies. The DEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDLs for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as necessary to achieve compliance with water quality standards.

The following TMDLs have been established for subsegment 060801:

Review and Assessment of the 1987 Vermilion River Watershed TMDL for Dissolved Oxygen

The 1999 Review and Assessment of the 1987 Vermilion River Watershed TMDL for Dissolved Oxygen, was revised in December 1999, and approved by EPA on April 5, 2001. This TMDL re-established that NPDES permits for individual point sources in the Vermilion Watershed should continue to be issued on the basis of flow rates as follows:

FLOW RATE

PERMIT LIMITS

greater than 25,000 gpd

May - Dec.: 10 mg/l CBOD $_5$ / 5 mg/l NH $_3$ -N / 5 mg/l DO Jan. - April: 20 mg/l CBOD $_5$ / 10 mg/l NH $_3$ -N / 5 mg/l DO

25,000 gpd or less

secondary limits year round

Therefore, this discharge will be permitted accordingly.

Vermilion River Fecal Coliform TMDL

This TMDL applies to sanitary dischargers only. As per the Vermilion River Fecal Coliform TMDL, "... there will be no change in the permit requirements based upon a wasteload allocation resulting from this TMDL." Therefore, Fecal Coliform effluent limitations will be permitted according to current state water quality standards.

TMDL for TSS, Turbidity and Siltation for the 15 Subsegments in the Vermilion River Basin

As per the TMDL for TSS, Turbidity, and Siltation for the 15 Subsegments in the Vermilion River Basin, "Point source loads are so small as to be insignificant, and because effective policies are in place to limit TSS discharges, no specific reductions from point sources are required." Therefore, TSS limitations will be permitted through best professional judgment in accordance with similar facilities in subsegment 060801 of the Vermilion-Teche River Basin.

TMDL for the Pesticide Carbofuran in the Mermentau and Vermilion Teche River Basins

There are no known point source discharges of Carbofuran in the Mermentau Basin, and therefore no allocation was given to point sources. There is one point source in the Vermilion-Teche (FMC Corp. LA0064360) but they do not discharge Carbofuran. Likewise no allocation was given to point source discharges in the Vermilion-Teche River Basin. Therefore, no limitations for Carbofuran will be placed in the permit.

As per the February 29, 2000 Delist (Federal Register Notice: Vol. 65, Num. 173, pages 54032-54034, 9/6/2000), assessment of new data and information shows this segment is meeting water quality standards for phosphorus. Therefore, requirements for Total Phosphorus will not be placed in this permit.

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Final Effluent Limits:

OUTFALL 001

Final limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

Effluent Characteristic	Monthly, Avg. (lbs./day))	Monthly Avg.	Weekly Avg.	Basis
CBOD₅ May December January April	N/A* N/A*	10 mg/l 20 mg/l	15 mg/l 30 mg/l	Limits are set in accordance with the 1999 Review and Assessment of the 1987 Vermilion River Watershed TMDL for Dissolved Oxygen for dischargers with flows greater than 25,000 GPD.
TSS May – December January - April	N/A* N/A*	15 mg/l 20 mg/l _i	23 mg/l 30 mg/l	Limits are set through BPJ in accordance with similar facilities in Subsegment 060801 of the Vermilion – Teche River Basin.
Ammonia- Nitrogen May – December January – April	N/A* N/A*	5 mg/l 10 mg/l	10 mg/l 20 mg/	Limits are set in accordance with the 1999 Review and Assessment of the 1987 Vermilion River Watershed TMDL for Dissolved Oxygen for dischargers with flows greater than 25,000 GPD.
Dissolved Oxygen	N/A*	5 mg/l**	. N/A	Limits are set in accordance with the 1999 Review and Assessment of the 1987 Vermilion River Watershed TMDL for Dissolved Oxygen for dischargers with flows greater than 25,000 GPD.

^{*}Concentration limits are used in accordance with LAC 33:IX.2709.F.1.b which states that mass limitations are not necessary when applicable standards and limitations are expressed in other units of measurement. LAC 33:IX.709.B references LAC 33:IX.711 which express BOD₅ and TSS in terms of concentration.

^{**}This Dissolved Oxygen limit is the lowest allowable average of daily discharges over a calendar month. When monitoring is conducted, the Dissolved Oxygen shall be analyzed immediately, as per 40 CFR 136.3.

Other Effluent Limitations:

1) Fecal Coliform

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5.b.i, the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgement in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

2) pH

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time. (Limits as established through BPJ considering BCT for similar waste streams in accordance with LAC 33:IX.5905.C.).

3) Solids and Foam

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

IX. PREVIOUS PERMITS:

There are no previous permits for this facility.

X. <u>ENFORCEMENT AND SURVEILLANCE ACTIONS:</u>

A) Inspections

A review of the files indicates that there have been no inspections performed at this facility.

B) Compliance and/or Administrative Orders

A review of the files indicates that there are no enforcement actions administered against this facility.

C) DMR Review

A review of the files indicates that there are no DMRs on file for this facility.

XI. ADDITIONAL INFORMATION:

The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional water quality studies and/or TMDL's. The DEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDL's for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as requested by the permittee and/or as necessary to achieve compliance with water quality standards. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

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At present, the **Monitoring Requirements, Sample Types, and Frequency of Sampling** as shown in the permit are standard for facilities of flows between 0.02 and 0.10 MGD.

Effluent Characteristics	Monitoring Req Measurement Frequency	uirements Sample Type
Flow CBOD₅	1/week 1/month	Measure Grab
Total Suspended Solids	1/month	Grab
Ammonia-Nitrogen	1/month	Grab
Dissolved Oxygen	1/month	Grab
Fecal Coliform Bacteria	1/month	Grab
pH	1/month	Grab

XII. <u>TENTATIVE DETERMINATION:</u>

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to issue a new permit for the discharge described in this Statement of Basis.

XIII. REFERENCES:

<u>Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 8, "Wasteload Allocations / Total Maximum Daily Loads and Effluent Limitations Policy,"</u> Louisiana Department of Environmental Quality, 2005.

<u>Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 5, "Water Quality Inventory Section 305(b) Report,"</u> Louisiana Department of Environmental Quality, 1998.

<u>Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards,"</u> Louisiana Department of Environmental Quality, 2004.

<u>Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Subpart 2 - "The LPDES Program,"</u> Louisiana Department of Environmental Quality, 2004.

<u>Low-Flow Characteristics of Louisiana Streams</u>, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

<u>Index to Surface Water Data in Louisiana</u>, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

<u>LPDES Permit Application to Discharge Wastewater</u>, Water & Wastewater Utilities, Inc., St. Benedict Subdivision, June 16, 2006.